U.S. Hydropower Resource Assessment for West Virginia

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ABSTRACT

The U.S. Department of Energy is developing an estimate of the undeveloped hydropower potential in the United States. The Hydropower Evaluation Software (HES) is a computer model that was developed by the Idaho National Engineering Laboratory^a for this purpose. HES measures the undeveloped hydropower resources available in the United States, using uniform criteria for measurement. The software was developed and tested using hydropower information and data provided by the Southwestern Power Administration. It is a menu-driven program that allows the personal computer user to assign environmental attributes to potential hydropower sites, calculate development suitability factors for each site based on the environmental attributes present, and generate reports based on these suitability factors. This report describes the resource assessment results for the State of West Virginia.

a. In January 1997, the name of the Idaho National Engineering Laboratory (INEL) was changed to the Idaho National Engineering and Environmental Laboratory (INEEL). INEEL will be used throughout the text of the document, except where the use of INEL is historically important.

ACKNOWLEDGMENTS

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U.S. Hydropower Resource Assessment for West Virginia

INTRODUCTION

In June 1989, the U.S. Department of Energy initiated the development of a National Energy Strategy to identify the energy resources available to support the expanding demand for energy in the United States. Public hearings conducted as part of the strategy development process indicated that undeveloped hydropower resources were not well defined. As a result, the Department of Energy established an inter-agency Hydropower Resource Assessment Team to ascertain the undeveloped hydropower potential. In connection with these efforts by the Department of Energy, the Idaho National Engineering Laboratory designed the Hydropower Evaluation Software (HES), which has been used to perform a resource assessment of the undeveloped conventional hydropower potential in over 40 states. This report presents the results of the hydropower resource assessment for the State of West Virginia. Undeveloped pumped storage hydropower potential is not included.

The HES was developed as a tool to measure undeveloped hydropower potential regionally or by state. The software is not intended to provide precise development factors for individual sites, but to provide regional or state totals. Because the software was developed as a generic measurement tool encompassing national issues, regional and state totals must be considered judiciously; various local issues may skew undeveloped hydropower potential totals. The information for the resource assessment was compiled from the Federal Energy Regulatory Commission's Hydroelectric Power Resources Assessment database and several other sources. Refer to DOE/ID-10338, the *User's Manual* (Francfort, Matthews, Rinehart 1991) for the specifics of the software and to DOE/ID-10430.1, the *Status Report* (Conner, Francfort, Rinehart 1996) for an overview of all resource assessment activities to date.

Model Development

Hydropower Evaluation Software, both a probability-factor computer model and a database, is a menu-driven program that is intended to be user-friendly. Computer screens and report-generation capabilities were developed to meet the needs of users nationwide. The software uses environmental attribute data to generate an overall project environmental suitability factor (PESF) between 0.1 and 0.9, where 0.9 indicates the highest likelihood of development and 0.1 indicates the lowest likelihood of development. The suitability factors depend on the unique environmental attributes of each potential site. They reflect the considerations that (a) environmental concerns can make a potential site unacceptable, prohibiting its development (for a suitability factor of 0.1), or (b) if there are no environmental concerns, there is no negative effect on the likelihood of site development (for a suitability factor of 0.9). A combination of attributes can result in a lower suitability factor because multiple environmental considerations would reduce the likelihood that a site may be developed to its physical potential.

Model Goal

The goal of the HES is to assemble an accurate resource database of all sites with undeveloped hydropower potential in the United States for use as a planning tool to determine the viable national hydropower potential. Undeveloped hydropower potential is not limited to the development of new sites; it also includes the development of additional hydropower-generating capacity at sites that currently have hydropower, but are not developed to their full potential. This undeveloped hydropower potential is a source of nonpolluting, renewable energy available to meet the growing power needs of the United States. The HES should help make this goal obtainable and ensure a set of uniform criteria for national assessment.

Dam Status

The effects of environmental attributes vary by dam status. The dam status classifications used are as follows:

- W = Developed hydropower site with current power generation, but the total hydropower potential has not been fully developed. Only the undeveloped hydropower potential is discussed in this report.
- W/O = Developed site without current power generation. The site has some type of developed impoundment or diversion structure, but no developed hydropower generating capability.
- U = Undeveloped site. The site does not have power generation capability nor a developed impoundment or diversion structure.

ASSESSMENT RESULTS

Summary Results

A total of 37 sites (Table 1) have been identified and assessed for their undeveloped hydropower potential. The HES results for

individual site capacities range from 3 kilowatts (kW) to 360 megawatts (MW). About 43% of the hydropower sites in West Virginia are greater than 10 MW, and less than 100 MW (Figure 1).

The nonmodeled undeveloped hydropower potential total for West Virginia was identified as 1,924 MW. The HES results lowers this estimate about 40% to 1,149 MW. The greatest reduction in undeveloped hydropower potential, by MW, occurs at sites that have some type of developed impoundment or diversion structure, but no hydropower generating capability (W/O category). These sites have a HES-modeled undeveloped hydropower potential of about 1,002 MW, a 595-MW reduction in the estimated undeveloped hydropower potential (Figure 2). Figure 3 correlates the number of sites that have undeveloped hydropower potential with the total megawatts of HES-modeled undeveloped hydropower potential.

The 37 identified sites are located within four major river basins. The number of sites per major river basin ranges from 5 in the Ohio Main Stream River basin to 14 in the Kanawha River basin (Figure 4). Fifty-five percent of the undeveloped hydropower potential in the State of West Virginia is contained within the Kanawha River basin (Figure 5).

Table 1. Undeveloped hydropower potential summary for West Virginia. The table contains the non-modeled undeveloped nameplate potential and the HES-modeled undeveloped potential totals.

	Number of projects	Nameplate potential (MW)	HES-modeled potential (MW)
With Power	0	0	0
W/O Power	27	1,596.7	1,001.9
Undeveloped	10	327.6	147.2
State Total	37	1,924.3	1,149.1

Figure 1. Number of sites, by capacity groups, with HES-modeled undeveloped hydropower potential.

Figure 2. The nonmodeled and HES-modeled undeveloped hydropower potential.

Figure 3. The number of sites with undeveloped hydropower potential and the total megawatts of HES-modeled undeveloped hydropower potential.

Figure 4. Number of sites with undeveloped hydropower potential in the West Virginia river basins.

Figure 5. Megawatts of HES-modeled undeveloped hydropower potential in the West Virginia river basins.

Detailed Results

The appendices contain, in the form of HES-generated reports, detailed information about the undeveloped hydropower potential in West Virginia. The appendices contain the following information:

Appendix A summarizes the undeveloped hydropower potential by dam status groups. The number of sites, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential is provided based on the dam status.

Appendix B provides the hydropower resource assessment by river basin, which includes the project number, project name, stream name, dam status, nonmodeled undeveloped hydropower potential, and the HES-modeled undeveloped hydropower potential for each site. Subtotals are provided for each river basin.

Appendix C lists the project numbers, plant name, stream name, if a site is Federally owned, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential. The sites are grouped by dam status.

Appendix D contains a resource database list for the 37 sites in West Virginia. Information includes plant name, stream, state, county, river basin and owner names, project number, nameplate and HES-modeled undeveloped hydropower potential, the unit and plant types, dam status, latitude, longitude, and the environmental factors that the HES uses to determine the PESF.

OBTAINING INDIVIDUAL STATE INFORMATION

Additional copies of the hydropower resource assessment results for individual states are available and can be obtained by writing or calling the authors or the National Technical Information Service (NTIS).

Telephone Orders—(703) 487-4650. NTIS sales desk and customer services are available between 8:30 a.m. and 5:00 p.m., Eastern Standard Time.

Fax—(703) 321-8547. Customers may fax their orders to NTIS. These orders may be charged to a NTIS deposit account, American Express, VISA, or MasterCard.

Mail Orders—Mail orders should be sent to National Technical Information Service, Document Sales, 5285 Port Royal Road, Springfield, VA 22161. Call the sales desk for prices before placing an order.

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For Help in Tracing an Order—Call (703) 487-4650 and request the customer service option.

ADDITIONAL HYDROPOWER EVALUATION SOFTWARE INFORMATION

Additional information concerning the HES can be obtained by contacting Ben Rinehart or Jim Francfort at the addresses provided below. Copies of the software and the User's Manual may also be obtained from these individuals.

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REFERENCES

Conner, A. M., J. E. Francfort, and B. N. Rinehart, 1996, *Uniform Criteria for U.S. Hydropower Resource Assessment, Hydropower Evaluation Software Status Report-II*, DOE/ID 10430.1, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Francfort, J. E., S. D. Matthews, and B. N. Rinehart, 1991, *Hydropower Evaluation Software User's Manual*, DOE/ID-10338, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Appendix A
Summary Report

DATE: 01/12/98

H Y D R O P O W E R C A P A C I T Y S U M M A R Y

<u>State</u>	<u>Category</u>	<u>Number of Projects</u>	<u>Name Plate Capacity (KW)</u>	<u>HES Adjusted Capacity (KW)</u>
WV	With Power	0	0	0
	W/O Power	27	1596657	1001854.30
	Undeveloped	10	327610	147164
	STATE TOTAL	37	1924267	1149018.30
TOTALS	With Power	0	0	0
	W/O Power	27	1596657	1001854.30
	Undeveloped	10	327610	147164
GRAND TOTAL		37	1924267	1149018.30

Appendix B
River Basins Report

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** River Basin KANAWHA RIVER BASIN					
WV007	ELK RIVER ELK R	U	67000.00	0.50	33500.00
WV012	GAULEY MILLS GAULEY R	U	40000.00	0.25	10000.00
WV013	WILLIAMS RIVER WILLIAMS R	U	15500.00	0.25	3875.00
10926	SUTTON ELK R	WO	10100.00	0.50	5050.00
WV008	MARMET L&D KANAWHA R	WO	18474.00	0.90	16626.60
WV009	LONDON L&D KANAWHA R	WO	4500.00	0.90	4050.00
WV010	GLEN FERRIS (KANAWHA FALLS) KANAWHA R	WO	17100.00	0.90	15390.00
WV011	SWISS GAULEY R	WO	400000.00	0.90	360000.00
10813	SUMMERSVILLE GAULEY R	WO	80000.00	0.50	40000.00
10634	SUMMERSVILLE GAULEY R	WO	100000.00	0.50	50000.00
WV014	BLUESTONE NEW R	WO	180000.00	0.50	90000.00
WV015	MEADOW CREEK MEADOW CR, NEW R	WO	5.00	0.50	2.50
10818	KINCAID HYDRO MUDDY CR, GREENBRIER R	WO	150.00	0.50	75.00
10845	PARCOAL HYDRO PROJECT DYERS RUN, ELK R (GAULEY R)	WO	6500.00	0.50	3250.00
** Subtotal **			939329.00		631819.10
** River Basin MONONGAHELA RIVER BASIN					
WV017	BIG SANDY CREEK BIG SANDY CR, CHEAT R	U	57400.00	0.25	14350.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
11436	OPEKISKA L&D MONONGAHELA R	U	5000.00	0.50	2500.00
WV020	LAUREL TYGART R	U	70000.00	0.25	17500.00
WV016	BEAVER HOLE 3 CHEAT R	WO	348000.00	0.50	174000.00
WV018	ROWLESBURG 3 CHEAT R	WO	245000.00	0.50	122500.00
09949	MORGANTOWN L&D MONONGAHELA R	WO	8000.00	0.75	6000.00
09049	PIONEER DECKERS CR, MONONGAHELA R	WO	1500.00	0.90	1350.00
11435	HILDEBRAND L&D MONONGAHELA R	WO	5000.00	0.75	3750.00
WV019	STONEWALL JACKSON WEST FORK R	WO	1058.00	0.90	952.20
07307	TYGART TYGART R	WO	20000.00	0.50	10000.00
** Subtotal **			760958.00		352902.20
** River Basin OHIO MAIN STREAM					
09627	EAST LYNN DAM E FK TWELVEPOLE CR, OHIO R	WO	500.00	0.75	375.00
06939	BELLEVILLE L&D OHIO R	WO	42000.00	0.75	31500.00
06902	WILLOW ISLAND L&D OHIO R	WO	35000.00	0.75	26250.00
06901	NEW CUMBERLAND L&D OHIO R	WO	37000.00	0.50	18500.00
10066	R D BAILEY GUYANDOT R	WO	8400.00	0.75	6300.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **					
			122900.00		82925.00
** River Basin POTOMAC RIVER BASIN					
WV001	MILLVILLE SHENANDOAH R	U	6150.00	0.90	5535.00
WV002	DAM NO 3 POTOMAC R	U	30000.00	0.90	27000.00
WV005	MOUNT STORM STONY R	U	36000.00	0.90	32400.00
WV006	STONY RIVER STONY R	U	560.00	0.90	504.00
WV003	DAM NO 5 POTOMAC R	WO	2900.00	0.90	2610.00
07310	CACAPON CACAPON R	WO	750.00	0.90	675.00
WV004	ROYAL GLENN N FK S BR POTOMAC R	WO	24000.00	0.50	12000.00
08431	MT STORM STONY R	WO	720.00	0.90	648.00
** Subtotal **					
			101080.00		81372.00
*** Total ***					
			1924267.00		1149018.30

Appendix C
West Virginia Sites List

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 11436 OPEKISKA L&D MONONGAHELA R	WV	U	5000.00	0.50	2500.00
** Subtotal **			5000.00		2500.00
** FERC Number WV001 MILLVILLE SHENANDOAH R	WV	U	6150.00	0.90	5535.00
** Subtotal **			6150.00		5535.00
** FERC Number WV002 DAM NO 3 POTOMAC R	WV	U	30000.00	0.90	27000.00
** Subtotal **			30000.00		27000.00
** FERC Number WV005 MOUNT STORM STONY R	WV	U	36000.00	0.90	32400.00
** Subtotal **			36000.00		32400.00
** FERC Number WV006 STONY RIVER STONY R	WV	U	560.00	0.90	504.00
** Subtotal **			560.00		504.00
** FERC Number WV007 ELK RIVER ELK R	WV	U	67000.00	0.50	33500.00
** Subtotal **			67000.00		33500.00
** FERC Number WV012 GAULEY MILLS GAULEY R	WV	U	40000.00	0.25	10000.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		40000.00	10000.00
** FERC Number WV013 WILLIAMS RIVER WILLIAMS R	WV U	15500.00 0.25	3875.00
** Subtotal **		15500.00	3875.00
** FERC Number WV017 BIG SANDY CREEK BIG SANDY CR,CHEAT R	WV U	57400.00 0.25	14350.00
** Subtotal **		57400.00	14350.00
** FERC Number WV020 LAUREL TYGART R	WV U	70000.00 0.25	17500.00
** Subtotal **		70000.00	17500.00
** FERC Number 06901 NEW CUMBERLAND L&D OHIO R	WV WO	37000.00 0.50	18500.00
** Subtotal **		37000.00	18500.00
** FERC Number 06902 WILLOW ISLAND L&D OHIO R	WV WO	35000.00 0.75	26250.00
** Subtotal **		35000.00	26250.00
** FERC Number 06939 BELLEVILLE L&D OHIO R	WV WO	42000.00 0.75	31500.00
** Subtotal **		42000.00	31500.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** FERC Number 07307 TYGART TYGART R	WV WO	20000.00 0.50	10000.00
** Subtotal **		20000.00	10000.00
** FERC Number 07310 CACAPON CACAPON R	WV WO	750.00 0.90	675.00
** Subtotal **		750.00	675.00
** FERC Number 08431 MT STORM STONY R	WV WO	720.00 0.90	648.00
** Subtotal **		720.00	648.00
** FERC Number 09049 PIONEER DECKERS CR, MONONGAHELA R	WV WO	1500.00 0.90	1350.00
** Subtotal **		1500.00	1350.00
** FERC Number 09627 EAST LYNN DAM E FK TWELVEPOLE CR, OHIO R	WV WO	500.00 0.75	375.00
** Subtotal **		500.00	375.00
** FERC Number 09949 MORGANTOWN L&D MONONGAHELA R	WV WO	8000.00 0.75	6000.00
** Subtotal **		8000.00	6000.00
** FERC Number 10066 R D BAILEY GUYANDOT R	WV WO	8400.00 0.75	6300.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		8400.00	6300.00
** FERC Number 10634 SUMMERSVILLE GAULEY R	WV WO	100000.00 0.50	50000.00
** Subtotal **		100000.00	50000.00
** FERC Number 10813 SUMMERSVILLE GAULEY R	WV WO	80000.00 0.50	40000.00
** Subtotal **		80000.00	40000.00
** FERC Number 10818 KINCAID HYDRO MUDDY CR, GREENBRIER R	WV WO	150.00 0.50	75.00
** Subtotal **		150.00	75.00
** FERC Number 10845 PARCOAL HYDRO PROJECT DYERS RUN, ELK R (GAULEY R)	WV WO	6500.00 0.50	3250.00
** Subtotal **		6500.00	3250.00
** FERC Number 10926 SUTTON ELK R	WV WO	10100.00 0.50	5050.00
** Subtotal **		10100.00	5050.00
** FERC Number 11435 HILDEBRAND L&D MONONGAHELA R	WV WO	5000.00 0.75	3750.00
** Subtotal **		5000.00	3750.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** FERC Number WV003 DAM NO 5 POTOMAC R	WV WO	2900.00 0.90	2610.00
** Subtotal **		2900.00	2610.00
** FERC Number WV004 ROYAL GLENN N FK S BR POTOMAC R	WV WO	24000.00 0.50	12000.00
** Subtotal **		24000.00	12000.00
** FERC Number WV008 MARMET L&D KANAWHA R	WV WO	18474.00 0.90	16626.60
** Subtotal **		18474.00	16626.60
** FERC Number WV009 LONDON L&D KANAWHA R	WV WO	4500.00 0.90	4050.00
** Subtotal **		4500.00	4050.00
** FERC Number WV010 GLEN FERRIS(KANAWHA FALLS) KANAWHA R	WV WO	17100.00 0.90	15390.00
** Subtotal **		17100.00	15390.00
** FERC Number WV011 SWISS GAULEY R	WV WO	400000.00 0.90	360000.00
** Subtotal **		400000.00	360000.00
** FERC Number WV014 BLUESTONE NEW R	WV WO	180000.00 0.50	90000.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		180000.00	90000.00
** FERC Number WV015 MEADOW CREEK MEADOW CR,NEW R	WV WO	5.00 0.50	2.50
** Subtotal **		5.00	2.50
** FERC Number WV016 BEAVER HOLE 3 CHEAT R	WV WO	348000.00 0.50	174000.00
** Subtotal **		348000.00	174000.00
** FERC Number WV018 ROWLESBURG 3 CHEAT R	WV WO	245000.00 0.50	122500.00
** Subtotal **		245000.00	122500.00
** FERC Number WV019 STONEWALL JACKSON WEST FORK R	WV WO	1058.00 0.90	952.20
** Subtotal **		1058.00	952.20
*** Total ***		1924267.00	1149018.30

Appendix D

Individual Resource Database List

RESOURCE DATABASE LISTING

DATE: 01/12/98

PAGE NO: 1

FERC Number	Plant Name	Stream	State Name
06901	NEW CUMBERLAND L&D	OHIO R	WV

County Name	River Basin
HANCOCK	OHIO MAIN STREAM

Class	Owner Name
M	NEW MARTINSVILLE, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
37000.00	0.50	18500.00	166250.00	83125

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4032.00
C	ROR	MO	WO	Longitude	8034.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

RESOURCE DATABASE LISTING

DATE: 01/12/98

PAGE NO: 2

FERC Number	Plant Name	Stream	State Name
06902	WILLOW ISLAND L&D	OHIO R	WV

County Name	River Basin
PLEASANTS	OHIO MAIN STREAM

Class	Owner Name
-------	------------

M	NEW MARTINSVILLE, CITY OF
---	---------------------------

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
35000.00	0.75	26250.00	163300.00	122475

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3928.00	Longitude	8106.00
C	ROR	MO	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
06939	BELLEVILLE L&D	OHIO R	WV

County Name	River Basin
WOOD	OHIO MAIN STREAM

Class	Owner Name
M	JACKSON,CITY OF(OH) ETAL

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
42000.00	0.75	31500.00	237900.00	178425

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3907.00
C	ROR	MO	WO	Longitude	8144.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	Y 0.75
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
07307	TYGART	TYGART R	WV

County Name	River Basin
TAYLOR	MONONGAHELA RIVER BASIN

Class	Owner Name
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M	GRAFTON, CITY OF
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
20000.00	0.50	10000.00	85300.00	42650

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3919.00
C	ROR	MO	WO	Longitude	8002.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
07310	CACAPON	CACAPON R	WV

County Name	River Basin
MORGAN	POTOMAC RIVER BASIN

Class	Owner Name
R	CACAPON HYDRO ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
750.00	0.90	675.00	3100.00	2790

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3935.00 7818.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
08431	MT STORM	STONY R	WV

County Name	River Basin
GRANT	POTOMAC RIVER BASIN

Class		Owner Name	
P		MT STORM HYDRO ASSOC	
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)
720.00	0.90	648.00	3100.00
			PESF Annual Energy Rating (MWh)
			2790

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3912.00
C	ROR	XX	WO	Longitude	7916.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
09049	PIONEER	DECKERS CR, MONONGAHELA R	WV

County Name	River Basin
MONONGALIA	MONONGAHELA RIVER BASIN

Class		Owner Name			
R	CAREX HYDRO				
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)	
1500.00	0.90	1350.00	5300.00	4770	
Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3936.00 7953.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
09627	EAST LYNN DAM	E FK TWELVEPOLE CR, OHIO R	WV

County Name	River Basin
WAYNE	OHIO MAIN STREAM

Class	Owner Name
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R	CLEARWATER HYDRO
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
500.00	0.75	375.00	2700.00	2025

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3809.00
				Longitude	8223.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	Y 0.75
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
09949	MORGANTOWN L&D	MONONGAHELA R	WV

County Name	River Basin
MONONGAHELA	MONONGAHELA RIVER BASIN

Class	Owner Name
R	WV HYDRO CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
8000.00	0.75	6000.00	28000.00	21000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3937.00
C	ROR	XX	WO	Longitude	7958.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104	Y	0.75
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10066	R D BAILEY	GUYANDOT R	WV

County Name	River Basin
WYOMING	OHIO MAIN STREAM

Class	Owner Name
R	STS ENERGENICS LTD INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
8400.00	0.75	6300.00	28100.00	21075

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3736.00
C	ROR	XX	WO	Longitude	8149.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10634	SUMMERSVILLE	GAULEY R	WV

County Name	River Basin
NICHOLAS	KANAWHA RIVER BASIN

Class	Owner Name
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M	MANASSAS, CITY OF
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100000.00	0.50	50000.00	255000.00	127500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3813.00 8053.00
C	STG	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10813	SUMMERSVILLE	GAULEY R	WV

County Name	River Basin
NICHOLAS	KANAWHA RIVER BASIN

Class	Owner Name
M	SUMMERSVILLE, TOWN OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
80000.00	0.50	40000.00	198000.00	99000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3813.00
C	ROR	MO	WO	Longitude	8053.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10818	KINCAID HYDRO	MUDDY CR, GREENBRIER R	WV

County Name	River Basin
GREENBRIER	KANAWHA RIVER BASIN

Class	Owner Name
R	GREENBRIER ELECTRO-MOTIVE

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.50	75.00	853.00	426.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3745.00	Longitude	8038.00
C	ROR	NO	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10845	PARCOAL HYDRO PROJECT	DYERS RUN, ELK R (GAULEY R)	WV

County Name	River Basin
WEBSTER	KANAWHA RIVER BASIN

Class		Owner Name	
R	PARCOAL ENERGY, INC		

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
6500.00	0.50	3250.00	56940.00	28470

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	DIV	XX	WO	3826.00	8023.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	Y 0.75
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	Y 0.75	Federal Land Code 107	0.90
Recreation Value	Y 0.75	Federal Land Code 108	0.90
Scenic Value	Y 0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
10926	SUTTON	ELK R	WV

County Name	River Basin
BRAXTON	KANAWHA RIVER BASIN

Class	Owner Name
M	GASSAWAY, TOWN OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
10100.00	0.50	5050.00	41000.00	20500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3840.00 8042.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11435	HILDEBRAND L&D	MONONGAHELA R	WV

County Name	River Basin
MONONGALIA	MONONGAHELA RIVER BASIN

Class	Owner Name
R	HILDEBRAND HYDRO ASSOCIATES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5000.00	0.75	3750.00	17100.00	12825

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3935.00	Longitude	8007.00
C	ROR	PO	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11436	OPEKISKA L&D	MONONGAHELA R	WV

County Name	River Basin
MONONGALIA	MONONGAHELA RIVER BASIN

Class	Owner Name
R	OPEKISKA HYDRO ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5000.00	0.50	2500.00	17100.00	8550

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3930.00 8043.00
C	ROR	PO	U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.50
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV001	MILLVILLE	SHENANDOAH R	WV

County Name	River Basin
JEFFERSON	POTOMAC RIVER BASIN

Class	Owner Name
P	POTOMAC EDISON CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
6150.00	0.90	5535.00	13390.00	12051

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3917.00 7746.00
C	ROR		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV002	DAM NO 3	POTOMAC R	WV

County Name	River Basin
JEFFERSON	POTOMAC RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
30000.00	0.90	27000.00	80000.00	72000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3920.00	Longitude	7745.00
C	ROR		U				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value	0.90	
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	0.90	
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife	0.90	
Cultural Value	0.90		Federal Land Code 103	0.90	
Fish Presence Value	0.90		Federal Land Code 104	0.90	
Geologic Value	0.90		Federal Land Code 105	0.90	
Historic Value	0.90		Federal Land Code 106	0.90	
Other Value	0.90		Federal Land Code 107	0.90	
Recreation Value	0.90		Federal Land Code 108	0.90	
Scenic Value	0.90		Federal Land Code 198	0.90	

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FERC Number	Plant Name	Stream	State Name
WV003	DAM NO 5	POTOMAC R	WV

County Name	River Basin
BERKELEY	POTOMAC RIVER BASIN

Class	Owner Name
P	POTOMAC EDISON CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2900.00	0.90	2610.00	10900.00	9810

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3936.00 7800.00
C	ROR		WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
WV004	ROYAL GLENN	N FK S BR POTOMAC R	WV

County Name	River Basin
GRANT	POTOMAC RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
24000.00	0.50	12000.00	65000.00	32500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3900.00 7910.00
C	STG		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV005	MOUNT STORM	STONY R	WV

County Name	River Basin
GRANT	POTOMAC RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
36000.00	0.90	32400.00	50000.00	45000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3916.00 7916.00
C	STG		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV006	STONY RIVER	STONY R	WV

County Name	River Basin
GRANT	POTOMAC RIVER BASIN

Class	Owner Name
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P	VIRGINIA ELEC & PWR CO
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
560.00	0.90	504.00	3240.00	2916

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3912.00 7915.00
C	STG		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV007	ELK RIVER	ELK R	WV

County Name	River Basin
WEBSTER	KANAWHA RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
67000.00	0.50	33500.00	79000.00	39500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	STG		U	3828.00	8008.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.50	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV008	MARMET L&D	KANAWHA R	WV

County Name	River Basin
KANAWHA	KANAWHA RIVER BASIN

Class		Owner Name		
F		CORPS OF ENGINEERS		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
18474.00	0.90	16626.60	46000.00	41400

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3815.00 8134.00
C	ROR		WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
WV009	LONDON L&D	KANAWHA R	WV

County Name	River Basin
KANAWHA	KANAWHA RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
4500.00	0.90	4050.00	30000.00	27000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3811.00 8122.00
C	ROR		WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
WV010	GLEN FERRIS (KANAWHA FALLS)	KANAWHA R	WV

County Name	River Basin
FAYETTE	KANAWHA RIVER BASIN

Class	Owner Name
I	ELKEM METALS CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
17100.00	0.90	15390.00	95500.00	85950

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3812.00	Longitude	8112.00
C	DIV		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV011	SWISS	GAULEY R	WV

County Name	River Basin
FAYETTE	KANAWHA RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
400000.00	0.90	360000.00	180000.00	162000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3816.00 8109.00
C	CMB		WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
WV012	GAULEY MILLS	GAULEY R	WV

County Name	River Basin
WEBSTER	KANAWHA RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
40000.00	0.25	10000.00	110000.00	27500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3827.00 8033.00
C	STG		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.50
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV013	WILLIAMS RIVER	WILLIAMS R	WV

County Name	River Basin
WEBSTER	KANAWHA RIVER BASIN

Class	Owner Name
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NHPS/COE

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
15500.00	0.25	3875.00	32000.00	8000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3818.00
C	STG		U	Longitude	8027.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.50
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV014	BLUESTONE	NEW R	WV

County Name	River Basin
SUMMERS	KANAWHA RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
180000.00	0.50	90000.00	447000.00	223500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3738.00
C	STG		WO	Longitude	8053.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV015	MEADOW CREEK	MEADOW CR, NEW R	WV

County Name	River Basin
FAYETTE	KANAWHA RIVER BASIN

Class		Owner Name			
I	CALES, DWAYNE				
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)	
5.00	0.50	2.50	21.00	10.50	
Unit Type	Plant Type	Project Status	Dam Status	Latitude	3746.00
C	ROR	LJ	WO	Longitude	8050.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV016	BEAVER HOLE 3	CHEAT R	WV

County Name	River Basin
PRESTON	MONONGAHELA RIVER BASIN

Class	Owner Name
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NHPS/COE-PREL COST

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
348000.00	0.50	174000.00	501000.00	250500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3937.00	Longitude	7948.00
C	CMB		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV017	BIG SANDY CREEK	BIG SANDY CR,CHEAT R	WV

County Name	River Basin
PRESTON	MONONGAHELA RIVER BASIN

Class	Owner Name
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NHPS/COE-PREL COST

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
57400.00	0.25	14350.00	60100.00	15025

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	STG		U	3941.00	7938.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.25
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value	Y	0.50	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.50	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV018	ROWLESBURG 3	CHEAT R	WV

County Name	River Basin
PRESTON	MONONGAHELA RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
245000.00	0.50	122500.00	301000.00	150500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3920.00 7941.00
C	CMB		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
WV019	STONEWALL JACKSON	WEST FORK R	WV

County Name	River Basin
LEWIS	MONONGAHELA RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1058.00	0.90	952.20	3963.00	3566.70

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3904.00	Longitude	8028.00
C	STG		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value	0.90	
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	0.90	
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife	0.90	
Cultural Value	0.90		Federal Land Code 103	0.90	
Fish Presence Value	0.90		Federal Land Code 104	0.90	
Geologic Value	0.90		Federal Land Code 105	0.90	
Historic Value	0.90		Federal Land Code 106	0.90	
Other Value	0.90		Federal Land Code 107	0.90	
Recreation Value	0.90		Federal Land Code 108	0.90	
Scenic Value	0.90		Federal Land Code 198	0.90	

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FERC Number	Plant Name	Stream	State Name
WV020	LAUREL	TYGART R	WV

County Name	River Basin
BARBOUR	MONONGAHELA RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
70000.00	0.25	17500.00	200000.00	50000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3916.00
C	STG		U	Longitude	7958.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90